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## (54) INK JET RECORDING APPARATUS

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To achieve good gradation printing and the stabilization of an emitting ink amt. or the enhancement of printing life by making it possible not only to perform gradation printing of several stages in a head nozzle number unit at every printing timing but also to change the drive pulse width of an arbitrary head nozzle at every one printing timing.

**SOLUTION:** In an on-demand type ink jet head 107 equipped with a plurality of nozzles for emitting ink dropst and a head drive means 106 for applying pressure to the ink in the nozzles corresponding to the nozzles, a pulse width variable means 105 for making head drive pulse width variable corresponding to printing data is provided. Further, a pulse generation means 109 for generating a plurality of pulse widths and a pulse width selecting means 108 for selecting the head drive pulse width are provided.

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